SKOPE PEGASUS

PG250/400/550Prep-2

Horizontal 1/1 Gastronorm

INTEGRAL Prep Chiller

User Manual

MAN6791O Rev. 2.0 Feb. 2012

SKOPE Refrigeration

SKOPE PEGASUS Horizontal Gastronorm Integral Prep Chiller
PG250/400/550Prep-2
User Manual

MAN6791O
Rev. 2.0 Feb. 2012

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1 Installation

Safety First

Always observe safety precautions when using any electrical appliance. Read these instructions carefully and retain them for future reference.

- When the appliance is used by or near young children or infirm persons, close supervision is necessary, especially to ensure children do not play with it.
- Do **not** use this appliance for other than its intended use.
- Do **not** cover the grilles or block the entry or exhaust of airflow by placing objects up against the refrigeration unit.
- Do **not** probe any opening.
- Only use this appliance with the voltage specified on the rating label.
- Ensure the appliance has adequate ventilation as this is essential to economical, high performance.
- Be careful not to touch moving parts and hot surfaces.
- For your own safety and that of others, ensure that all electrical work is done by authorised personnel.
- If the power supply flexible cord becomes damaged, it must be replaced by an authorised service agent or similarly qualified person in order to avoid a hazard.
- Ensure all necessary safety precautions are observed during installation or removal of the refrigeration unit.
- The appliance is not designed to be stable while in motion. Use extreme caution when moving or transporting it.
- Do not store explosive substances such as aerosol cans with a flammable propellant in this appliance.

CAUTION

Never overload the power supply, which could damage the chiller and product. See the rating label inside the cabinet for the safe power supply and current draw.

WARNING

Always disconnect the chiller from the mains power supply before cleaning or maintenance.

Fitting the Legs or Castors

Packed inside the the cabinet is a set of adjustable height legs and a set of adjustable height castors. Either of these sets can be fitted to the cabinet depending on specific height and manoeuvrability requirements. The legs or castors should be fitted to the base of the cabinet before final positioning of the chiller. Do **not** lay the chiller onto its back when fitting the legs or castors.

Adjustable Legs

The adjustable legs screw into the castor mounting plates attached to the bottom of the cabinet. The adjustable legs can adjust the cabinet height up to 30mm.

To adjust the height of each leg, turn the black plastic foot at the bottom of the leg counter-clockwise to raise the height or clockwise to lower (see Figure 2 below).

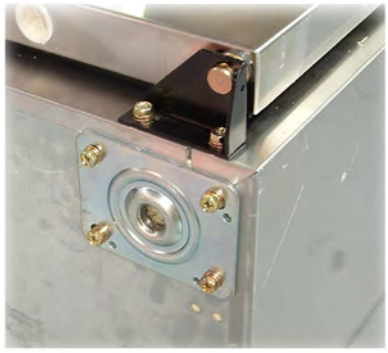


Figure 1: Castor Mounting Plate

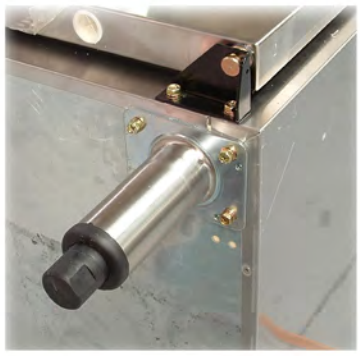


Figure 2: Adjustable Leg

Adjustable Castors

The adjustable castors screw into the castor mounting plates attached to the bottom of the cabinet. The two lockable castors should be fitted to the front of the cabinet (see Figure 3 below) and the non-locking castors fitted to the rear (see Figure 4 below). The adjustable castors can adjust the cabinet height up to 15mm.

To adjust the height of each castor, loosen the lock nut and turn the castor counter-clockwise to raise the height or clockwise to lower. Re-tighten each lock nut after final adjustment has been made.

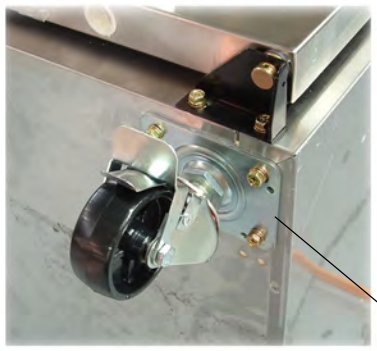


Figure 3:
Lockable Castor (front)

Figure 4:
Non-Locking Castor (rear)

Castor Mounting Plates

If the chiller is intended to be mounted on a plinth, the castor mounting plates attached to the bottom of the cabinet can be removed to provide a flat bottom. Each castor mounting plate is held in place by four pozi-drive hexagon head screws (see Figure 1 above).

Positioning the Cabinet

Location

When positioning the cabinet, avoid direct sunlight and warm draughts etc. The cabinet must NOT be situated where it is affected by warm or hot air from adjacent equipment (above 30°C), as this will compromise the airflow and performance of the chiller.

The cabinet must be positioned on a level surface for the doors to shut and seal correctly, and to prevent the condensate tray from overflowing. Adequate allowance should be made for door opening.

Always ensure that the top of the cabinet is shielded from impact and moisture, with either a SKOPE provided bench top or with a custom or existing bench top.

Ventilation

For efficient operation of the chiller, it is essential that adequate ventilation be provided around the front of the refrigeration unit. Normal operating conditions should not exceed 30°C at 65% RH (climatic class 5).

It is critical that the hot refrigeration exhaust air is not restricted and that it can easily flow out and away from the front of the cabinet.

Never store cardboard cartons or other items in front of the refrigeration unit. The ventilation slots in the unit front cover must be kept clear at all times.

When installing the cabinet

- Avoid direct sunlight and warm draughts etc.
- Allow adequate space for the door/s and/or drawer/s to open fully.
- Ensure the cabinet is positioned on a level surface so the door/s shut and seal correctly and to prevent the condensate tray from overflowing.

IMPORTANT:
For correct operation, the sliding covers must stay on the cabinet and should cover the food preparation pans when not in use.

Power Supply

The chiller is supplied with a 1.8m flexible power cord and plug, which for transit purposes is located inside a compartment in the rear of the cabinet (see Figure 5 below).

Before final positioning of the chiller, pull the power cord out from the rear compartment and connect to the power supply. For convenience, any surplus cord length may be left inside the cabinet compartment.

Once the chiller has been installed it can be disconnected from the mains power supply by turning off the cabinet isolating switch and unplugging the unit supply isolation flex, located inside the refrigeration unit compartment (see Figure 6 below).

Figure 5: Power Cord

Figure 6: Isolating Switch

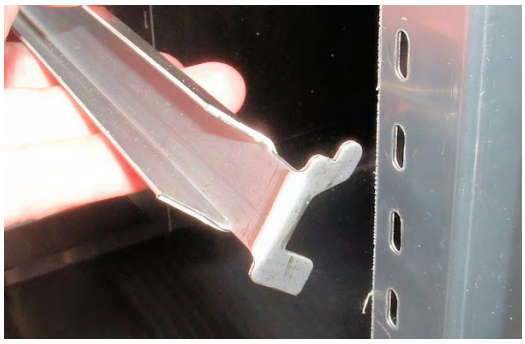
WARNING:
Do **NOT** overload the power supply. See the rating label inside the cabinet for power supply and current draw.

Shelving

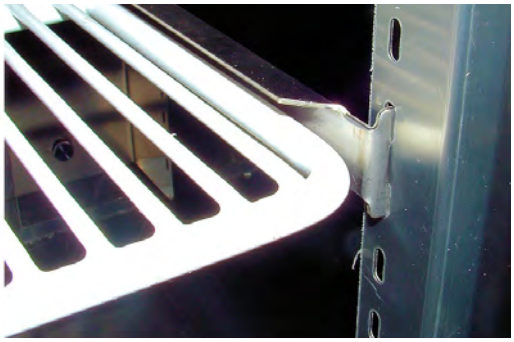
The cabinet is supplied with two sets of shelves and shelf support brackets per door. The shelves can be positioned at different heights to suit various products.

To fit the shelves

1. Unpack the shelving items from inside the cabinet.
2. Establish the desired position for each of the shelves, based on the height of the product intended to go on each shelf.
3. Fit the shelf support brackets into the corresponding slots in both the front and back support rails. Each shelf requires two support brackets.



4. Slide each shelf into the support brackets.



Loading Product

The chiller should be left running for 30 minutes before loading with product. When loading the cabinet shelves with product:

- Allow air space around all the product, to ensure even cooling and efficient operation of the chiller.
- Do not allow products to overhang the front of the shelf as this could prevent the doors from shutting. Leave an airspace of at least 75mm above product loaded on the top shelf.
- Do not exceed a maximum loading of 20kg per shelf.
- Remove some product if the shelves are flexing or bending.

Sliding Covers

The Prep chiller is supplied with the following quantity of food preparation pans and sliding covers:

Cabinet Model	Doors	Pans	Covers
PG250Prep-2	2 Door	4	2
PG400Prep-2	3 Door	7	2
PG550Prep-2	4 Door	10	4

For correct operation of the chiller, the sliding covers must stay on the cabinet and should cover the food preparation pans when not in use. Fit the sliding covers as per Figure 7 below.

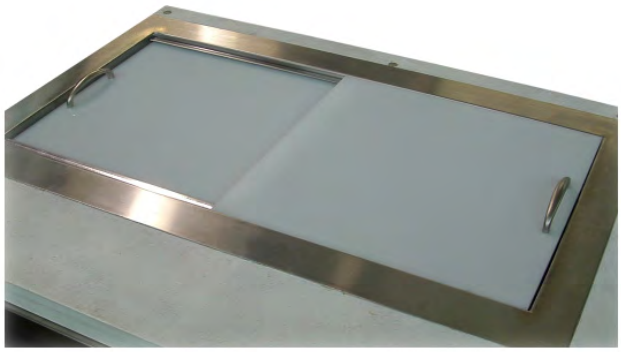


Figure 7: Sliding Covers

2 Operation

Automatic Start-Up

Connect the cabinet to the mains power supply and check operation of the refrigeration unit, electronic controller and cabinet lighting.

Ensure the cabinet isolating switch, located inside the refrigeration unit compartment, is turned on.

Refrigeration Unit

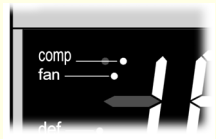
The refrigeration unit evaporator and condenser fans should all operate continuously from the time the cabinet is plugged in. The internal cabinet air will continue to circulate at all times.

The compressor will start after approximately one minute. The compressor will switch off when the cabinet internal temperature reaches approximately +1.5°C, and on again at approximately +4°C.

Electronic Controller

When the cabinet is connected to the power supply:

The electronic controller will display the cabinet temperature.



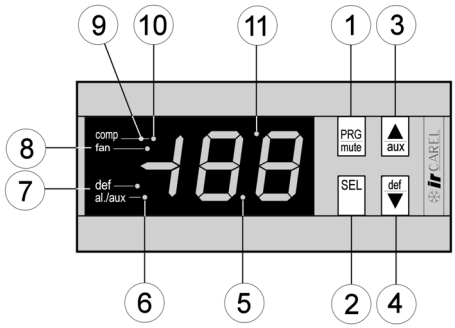
The ‘Compressor’ and ‘Fan’ LEDs will indicate when the compressor and evaporator fan are operating.

Cabinet Lighting

The interior lighting will go on when a cabinet door is opened. To replace an LED tube see service instructions on page 15.

Electronic Controller

Controller Display



Item	Icon	Function
1	PRG mute	Silences alarm buzzer Activates reset procedure
2	SEL	Displays setpoint in run mode
3	▲ aux	Adjustment locked out Activates and deactivates ‘continuous refrigeration mode’ with **def** key
4	def ▼	Adjustment locked out Activates manual defrost cycle Activates and deactivates ‘continuous refrigeration mode’ with **aux** key
5	●	Decimal point indicator
6	al./aux ●	Unused
7	def ●	Defrost cycle ON indicator
8	fan ●	Evaporator fan ON indicator
9	●	‘Continuous refrigeration mode’ ON indicator (fast freeze)
10	comp ●	Compressor ON indicator
11	●	Remote controller indicator

Controller Operation

The operation of the chiller is controlled by a pre-programmed microprocessor. The Microprocessor display indicates the temperature of the cabinet ambient probe, except during a defrost where the temperature of the cabinet probe is locked in, and during an alarm condition.

At alarm activation, the display indicates the type of alarm signal, and an audible alarm sounds. The alarm can be muted by pressing the **PRG/mute** key on the controller.

Controller Alarms

A flashing LED indicates an alarm. The following is a list of alarms the controller displays:

Alarm code	Description
E0	Faulty ambient probe
E1	Faulty defrost probe
IA	High pressure fault
LO	Low (minimum) temperature alarm
HI	High (maximum) temperature alarm *
Ed	Defrost timed out
EA	Data acquisition failure
Eb	
EE	

*** NOTE:** Alarm 'HI' may activate during initial pull-down cycle, after being first powered up. The alarm can be muted and will automatically reset when the cabinet passes the alarm setpoint.

To reset an alarm

1. Clean the condenser radiator fins and remove any obstruction to the airflow.
2. Ensure the cabinet environment is below 35°C.
3. Unplug the cabinet from the power supply for 1 minute, then re-connect to the power supply.
4. Check cabinet product loading to ensure ventilation slots are not blocked and that product does not overhang the shelves.
5. If alarm persists, contact a SKOPE authorised refrigeration service agent.

Programming

To prevent unauthorised modification, the controller is factory set with the keypad locked.

To make permanent program changes, including changing the setpoint and forcing a manual defrost, the keypad must first be unlocked, by entering an access code. Entering the access code allows the keypad to be unlocked and locked by altering parameter '**H2**' (see below for instructions on how to unlock the keypad).

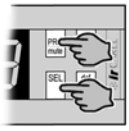
Controller lock parameter

Parameter	Setting	Description
H2	00	Keypad locked
H2	01	Keypad unlocked

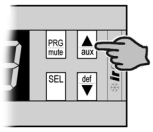
After making program changes, it is recommended that the keypad is locked (see over page for instructions on how to lock the keypad).

To unlock the keypad

1. Press and hold both the **PRG** and **SEL** keys simultaneously for more than 5 seconds until '**00**' is displayed.

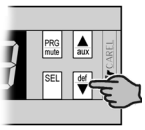


2. Press the **UP** (aux) key until '**22**' is displayed.



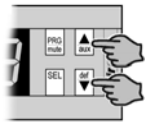
3. Press the **SEL** key to confirm selection. The first parameter '**/C**' is displayed.

4. Press the **DOWN** (def) key twice, until '**H2**' is displayed.

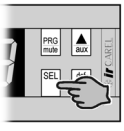


5. Press the **SEL** key to display the value of the parameter.

6. Press the **UP** (aux) key to increase, or the **DOWN** (def) key to decrease, until '**01**' is displayed.



7. Press the **SEL** key to accept the value.

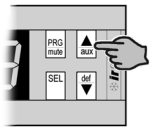


8. Press the **PRG** key to lock in the new value and to exit program.

To lock the keypad

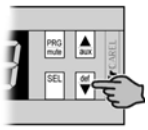
1. Press and hold both the **PRG** and **SEL** keys simultaneously for more than 5 seconds until '**00**' is displayed.

2. Press the **UP** (aux) key until '**22**' is displayed.

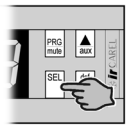


3. Press the **SEL** key to confirm selection. The first parameter '**/C**' is displayed.

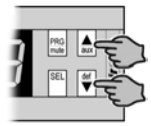
4. Press the **DOWN** (def) key twice, until '**H2**' is displayed.



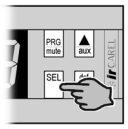
5. Press the **SEL** key to display the value of the parameter.



6. Press the **UP** (aux) key to increase, or the **DOWN** (def) key to decrease, until '**00**' is displayed.



7. Press the **SEL** key to accept the value.



8. Press the **PRG** key to lock in the new value and to exit program.

Setpoint

The chiller setpoint is factory set at 1.5°C. If necessary, the standard setting can be adjusted between 0°C and 6°C. SKOPE do not recommend the setpoint be changed unless absolutely necessary, and then only in small increments at a time.

To display the set point

1. Unlock the keypad.
2. Press the **SEL** key for 1 second and the Set Point value will be displayed.

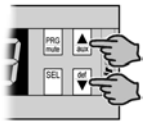
Freezer set point

Factory setting:	1.5°C
Maximum:	6°C
Minimum:	0°C

To change the set point

1. Unlock the keypad.
2. Press the **SEL** key for 1 second and the Setpoint value will be displayed. On releasing the key, the display will flash.

3. To change the Setpoint value, press the **UP** (aux) or **DOWN** (def) keys.



4. Press the **SEL** key to lock in the value and return to cabinet temperature. The Setpoint value is stored even when the procedure is exited, by waiting for the time-out to expire.

Manual Defrost

To start a manual defrost

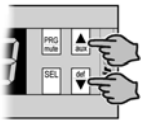
1. Unlock the keypad.
2. Press and hold both the **PRG** and **SEL** keys simultaneously for more than 5 seconds until '**00**' is displayed.

Continuous Refrigeration

To achieve a fast product temperature pull-down, activate continuous refrigeration mode.

To enter continuous refrigeration mode

1. Unlock the keypad.
2. To achieve a fast product pull-down, press **UP** (aux) and **DOWN** (def) together, (down key first) to initiate a 'Continuous Refrigeration' mode.



3 Servicing

Lighting

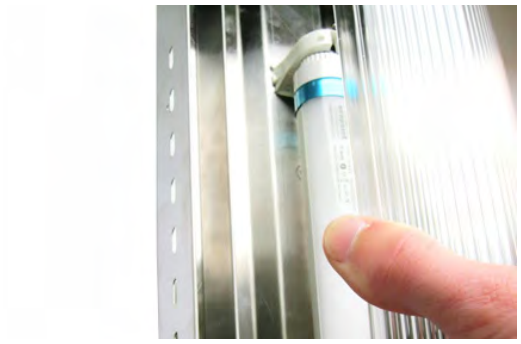
Cabinet Interior Lights

Depending on the model, the cabinet interior is lit by one or two 5 Watt T8 LED tubes, fitted behind the centre pillars.

To replace the interior LED light tube

1. Open the refrigeration compartment door and isolate the chiller from the power supply by switching off the mains isolation switch.

2. Remove the diffuser by squeezing it until it is released from the housing, and then push the diffuser out of the way.



3. Rotate the LED tube until the pins on the ends of the tube align with the slots, then slide it out. **Note:** access can be made easier by removing the shelves.

4. Fit a new LED tube and clip the diffuser back into place

Cleaning

Cabinet

When necessary, wipe both the interior and exterior of the cabinet with a damp cloth. Ensure the cabinet is disconnected from the mains power supply before cleaning the cabinet.

CAUTION

Disconnect the cabinet from the mains power supply before cleaning the condenser coil or washing the cabinet with water.

Condenser Coil

The condenser coil should be brushed clean once a month and blown clean by qualified service personnel every six months. Over time, dust may accumulate within the condenser that cannot be removed with a brush. If this occurs, contact SKOPE to arrange for a SKOPE authorised service agent to clean the condenser with compressed air. The condenser coil is located inside the refrigeration unit compartment and is accessed by opening the unit front cover.

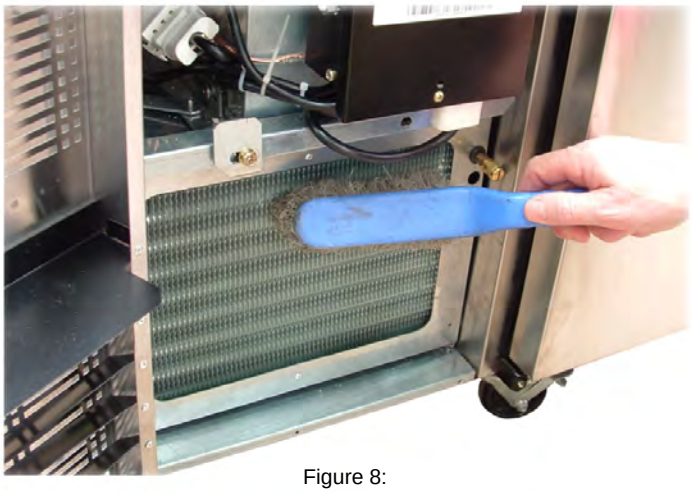


Figure 8:
Condenser Coil

Sliding Covers

At regular intervals the sliding covers, guide rails, air diffuser panels and food preparation pans should be removed from the cabinet and washed with soapy water.

To remove the sliding covers

1. Lift the cover up, which will raise the guide rails, allowing the covers to slide out.

To remove the guide rails and air diffuser panels

1. Remove the sliding covers and then lift both guide rails out. The air diffuser panels can then be removed for cleaning.

Food Preparation Pans

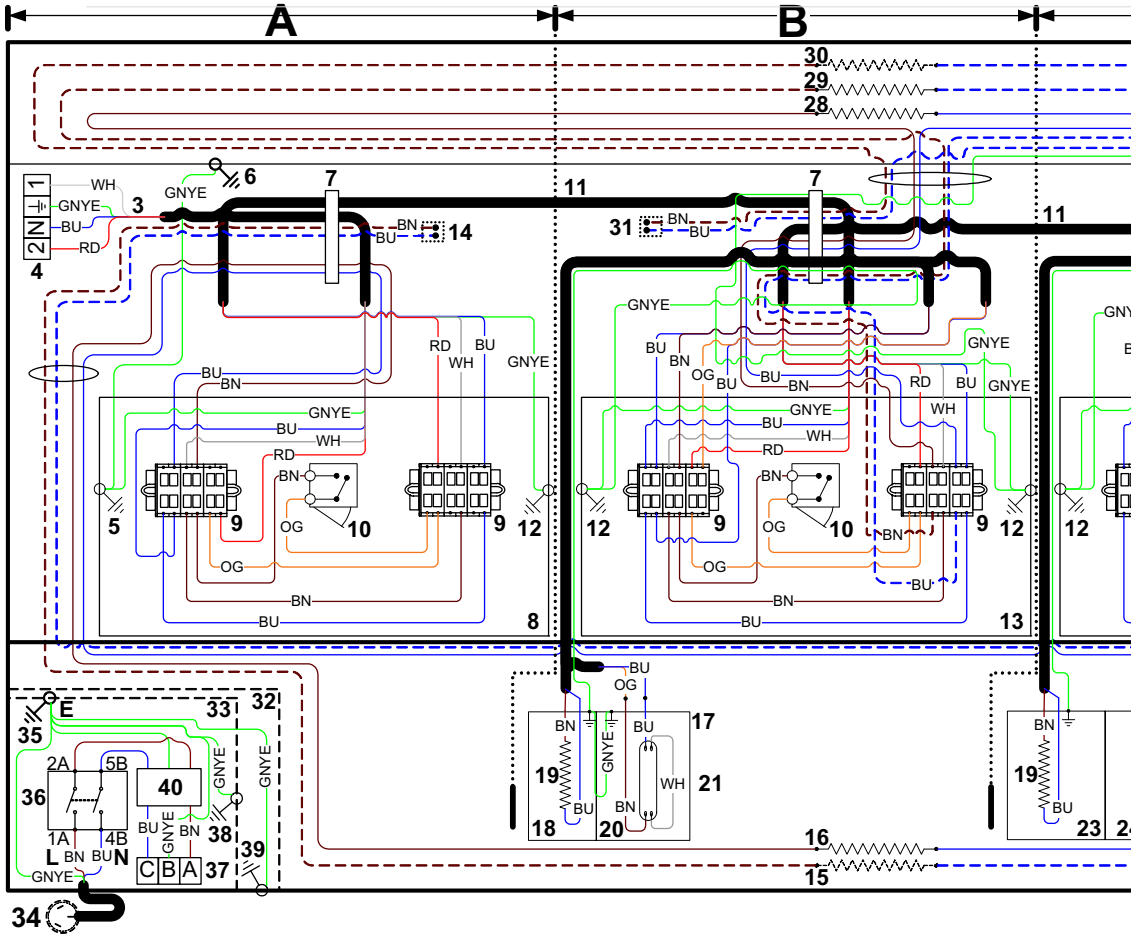
The food preparation pans can be easily removed from the cabinet for cleaning.

To remove the guide rails and air diffuser panels

1. Open the sliding door and lift the pan from the cabinet.

Wiring

Cabinet Wiring Diagram



* For refrigeration unit wiring details, refer to 'Refrigeration Unit Wiring Diagram' on the following pages.

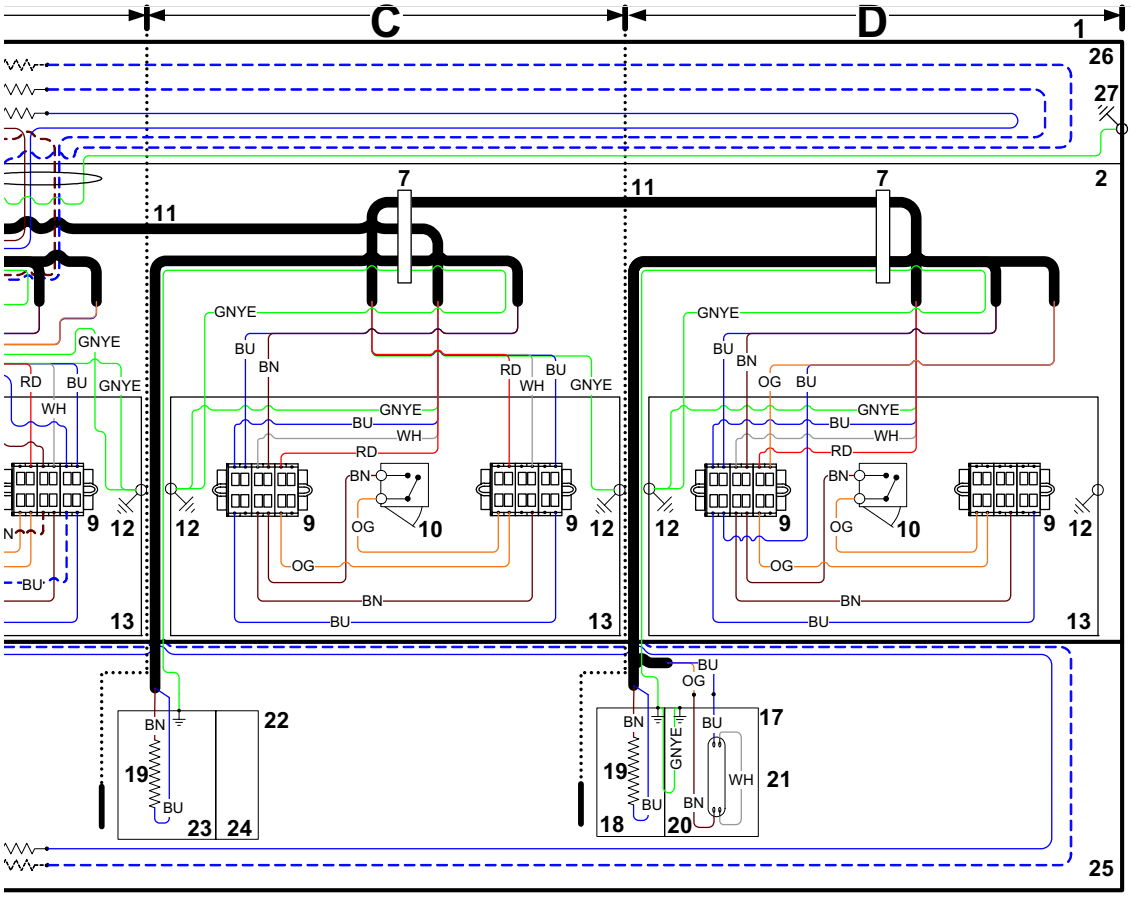
** For remote refrigerators, the mains isolation box assembly is part of the refrigeration unit assembly.

Cabinet Wiring Component Key

Item	Description	Item	Description
1	Foamed cabinet	11	4-Core link flex
2	Cabinet stepped front top	12	Link flex earth connections
3	Cabinet supply flex with 4-Pole ENSTO plug	13	Cabinet wiring switched extension tray
4	4-Pole ENSTO plug*	14	Spare cabinet fascia heater wire supply wires (if available)
5	Cabinet supply flex earth connection	15	Spare cabinet fascia heater wire (not connected, if available)
6	Main cabinet chassis earth connection	16	Cabinet fascia heater wire (chiller, otherwise freezer)
7	Flex tie (to guide wires & flexes on stepped cabinet front top)	17	Heated lit centre pillar assembly
8	Cabinet wiring switched supply tray	18	Heated lit centre pillar fascia assembly
9	3-Pole screwless connector block	19	Centre pillar fascia heater wire (chiller, otherwise freezer)
10	Single pole door activated switch	20	Heated lit centre pillar back assembly

Model Key

Cabinet Model	Portions of Wiring Diagram
1-Door	Not offered as standard in this range
2-Door	Portions A & B. Exclude 'Outer' connected bench top heater wire for Prep cabinet (item 29) - included in Pizza cabinet only
3-Door	Portions A, B & D. Exclude 'Outer' connected bench top heater wire for Prep cabinet (item 29) - included in Pizza cabinet only
4-Door	Portions A, B, C & D. Exclude 'Outer' connected bench top heater wire for Prep cabinet (item 29) - included in Pizza cabinet only



Cabinet Wiring Component Key (continued)

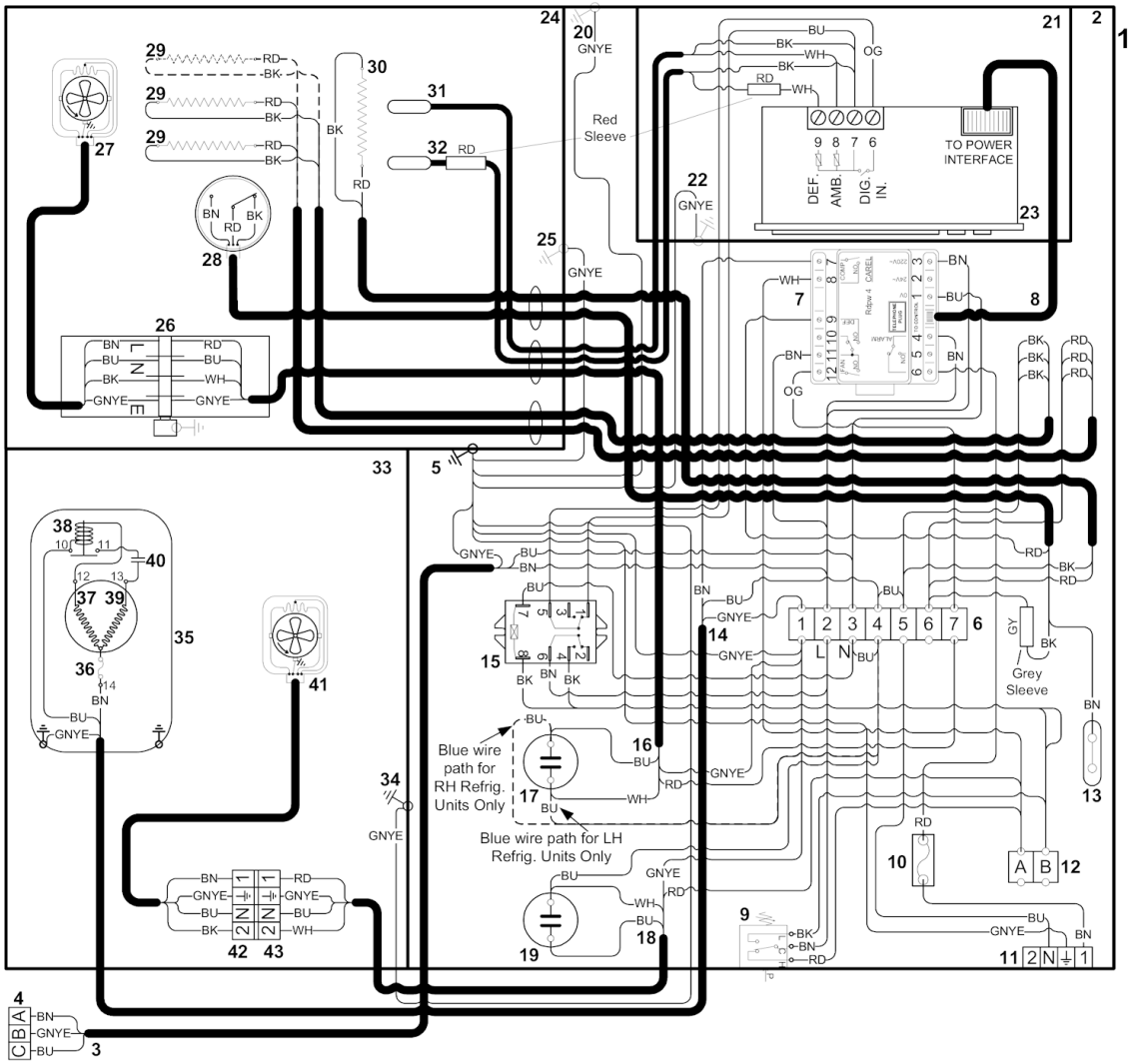
Item	Description	Item	Description
21	LED tube cabinet light (5W)	31	Spare bench top heater wire supply wires (if available)
22	Heated centre pillar assembly (no light)	32	Refrigeration unit enclosure
23	Heated centre pillar fascia assembly	33	Mains isolation box assembly (**Not on REMOTE cabinets)
24	Heated centre pillar back assembly	34	Mains supply flex (with 3-Pin plug)
25	Cabinet fascia	35	Mains supply earth connection
26	Heated bench top assembly	36	2-Pole isolation switch
27	Heated bench top assembly earth connection	37	3-Pole BLUE panel mount ENSTO socket - isolation socket
28	Bench top heater wire (Prep, otherwise Pizza)	38	Mains isolation box cover earth connection
29	Outer bench top heater wire (exists for Pizza cabinet only)	39	Refrigeration unit enclosure earth connection
30	Spare bench top heater wire (not connected, if available)	40	Schaffer EMI filter

Wire Colour Key

BK	Black	BU	Blue
BN	Brown	GY	Grey
RD	Red	WH	White
OG	Orange	GNYE	Green-Yellow
GN	Green	Based upon IEC 757 Standard	

Refrigeration Unit Wiring Diagram

Models: UE50/60ACD



*LE denotes the motor direction as viewed from the lead end.
**For refrigeration cabinet wiring details, refer to 'Cabinet Wiring Diagram' on the previous pages.

Wire Colour Key

BK	Black	BU	Blue
BN	Brown	GY	Grey
RD	Red	WH	White
OG	Orange	GNYE	Green-Yellow
GN	Green	Based upon IEC 757 Standard	

Refrigeration Unit Wiring Component Key

Models: UE50/60ACD

Item	Description	Item	Description
1	Refrigeration Unit Assembly	23	Programmed Electronic Controller
2	Unit Wiring Junction Box	24	Evaporator Box Assembly
3	Refrigeration Unit Supply Isolation Flex (with 3-pin blue free ENSTO plug fitted)	25	Evaporator Box Exterior Earth Connection
4	3-Pole Blue Free ENSTO Plug	26	Terminal Box (for evaporator fan flex extension)
5	Isolation Flex Earth Connection	27	Evaporator Fan (CW rotation - LE* for LH refrigeration unit, CCW rotation - LE* for RH unit).
6	7-Pole Terminal Block	28	Thermal Cutout
7	Electronic Controller Module	29	Defrost Element (182W at 230V) - 2 for UE50FAC refrigeration unit - 3 for UE60FAC refrigeration unit
8	Electronic Controller Connection Cable	30	Defrost Sump Element (312W at 230V)
9	High Pressure Switch (auto-reset)	31	Cabinet Ambient Temperature Probe
10	Cabinet Supply Fuse (3A)	32	Evaporator Coil Temperature Probe (red sleeve)
11	4-Pole Panel Mount ENSTO Socket	33	Condenser Assembly
12	2-Pole Terminal Block	34	Condenser Assembly Earth Connection
13	Inline Insulator (for unused terminal)	35	Compressor
14	3-Core Compressor Supply Flex	36	Compressor Winding Protector / Thermal Overload
15	OMRON Latching Relay	37	Compressor Main Winding
16	Evaporator Fan 4-Core Extension Flex	38	Compressor Starting Relay
17	Evaporator Fan Capacitor	39	Compressor Start Winding
18	Condenser Fan 4-Core Extension Flex (with 4-pole ENSTO socket fitted)	40	Compressor Starting Capacitor
19	Condenser Fan Capacitor	41	Condenser Fan (with 4-pole ENSTO plug fitted) (CW rotation - LE*)
20	Unit Wiring Junction Box Cover Earth Connection	42	4-Pole Free ENSTO Plug
21	Electronic Controller Enclosure Ass'y	43	4-Pole Free ENSTO Socket
22	Electronic Controller Enclosure Earth Connection		

Advanced Servicing

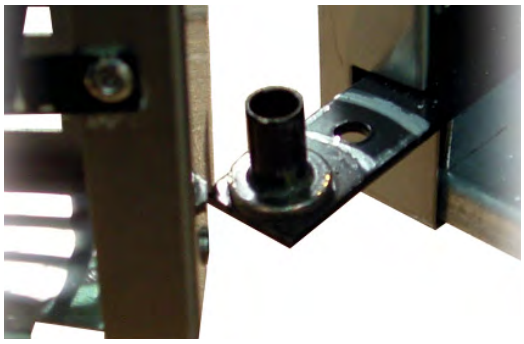
Servicing should be carried out by an authorised service agent. Detailed service and spares information is available in the SKOPE Pegasus Service Manual and detailed technical information on the SKOPE ir32 Controller can be found in the SKOPE Pegasus Technicians Manual.

Removing the Refrigeration Unit

For ease of servicing, the entire refrigeration unit can be removed from the cabinet.

To remove the refrigeration unit

1. Open the unit cover. Remove the cover from the cabinet by lifting the bottom corner of the cover off the bottom hinge pin..



2. Switch off the cabinet isolating switch and unplug the blue power supply plug from underneath the isolating socket box.

3. Disconnect the cabinet supply plug from underneath the wiring junction box on the front of the refrigeration unit.

4. Remove the top clamp screw from the clamp mechanism on top of the unit.

5. Pull the top clamp mechanism fully forward, into the relocation position on the front flange of the cabinet (this keeps the mechanism up out of the way).

6. Remove the bottom clamp screw from the front of the refrigeration unit.

7. Pull the bottom clamp lever forward, while applying adequate force to the right hand side of the wiring junction box to disengage the unit from the cabinet wall (the unit will need to move over approx. 60mm).

8. Carefully pull the refrigeration unit out from the unit compartment.

   IMPORTANT: When refitting the refrigeration unit, refit the bottom clamp screw first before fitting the top clamp screw and prior to refitting, ensure that all seals are in good condition.

Troubleshooting

Complaint	Possible Cause	Repair
1. Cabinet not operating and no controller display:	• Loss of power supply.	• Check mains power supply. • Check that the cabinet isolating switch is turned on (see page 6).
2. Cabinet lights not operating:	• Failed LED light tube. • Cabinet ENSTO supply plug not plugged into control box.	• Replace LED light tube (see page 15). • Reconnect plug (see page 22).
3. Power consumption is higher than expected:	• Unit operating too hot. • Cabinet doors are opened excessively. • Sliding covers are left open for an excessive amount of time.	• Clean condenser. Ensure the chiller is installed with good ventilation around the refrigeration unit. • Keep door/s open for minimum time. • Keep covers opened for minimum time.
4. Product is too warm and spoiling:	• Restricted cabinet airflow. • Temperature setpoint is too warm.	• Ensure product is not blocking airflow slots and the product is no closer than 75mm from the cabinet top. • Adjust setpoint (see page 14).
5. Warm cabinet temperatures and/or compressor operating for long periods (more than 1 hour):	• Blocked condenser. • Poor refrigeration unit ventilation.	• Clean condenser (see page 16). • Ensure the cabinet is installed with good ventilation around the refrigeration unit (see page 6).

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